

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/28407

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 31/44  
US CL : 514/293

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 514/293

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No.         |
|------------|---|-------------------------------|
| X,         | Database MEDLINE on STN, Department of Dermatology and Venerology, University of Essen, Germany, 11871495, HENGGE, U.R. et al., "Topical immunomodulators--progress towards treating inflammation, infection, and cancer.", abstract, Lancet Infectious Disease, 1(3), pp. 189-198, October 2001.               | 1-6, 27-32 and 39-40<br>----- |
| ---        |   | 1-6 27-32 and 39-40           |
| Y          |   |                               |
| X          | Database EMBASE on STN, Sunnybrook Health Science Centre, (Toronto, Canada), No. 1996284762, FUJISAWA H. et al., "Effect of a Novel Topical Immunomodulator, S-28463, on Keratinocyte Cytokine Gene Expression and Production," abstract, Journal of Interferon and Cytokine Research, 16/7, pp. 555-559, 1996. | 1-6, 27-32 and 39-40<br>----- |
| ---        |   |                               |
| Y          |   | 1-6, 27-32 and 39-40          |

Further documents are listed in the continuation of Box C.

See patent family annex.

|   |     |  |
|---|-----|--|
| * Special categories of cited documents:  | "T" | later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  |
| "A" document defining the general state of the art which is not considered to be of particular relevance  | "X" | document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone   |
| "B" earlier application or patent published on or after the international filing date   | "Y" | document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" | document member of the same patent family  |
| "O" document referring to an oral disclosure, use, exhibition or other means  |     |  |
| "P" document published prior to the international filing date but later than the priority date claimed  |     |  |

Date of the actual completion of the international search

26 December 2004 (26.12.2004)

Date of mailing of the international search report

29 JAN 2005

Name and mailing address of the ISA/US

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**INTERNATIONAL SEARCH REPORT**

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**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
  
3.  Claims Nos.: 7-26 and 33-38  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

1.  As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**  

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

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**Continuation of B. FIELDS SEARCHED Item 3:**

REGISTRY, CAPLUS, MEDLINE, BIOSIS, EMBASE, JAPIO, JICST-EPLUS for the following search terms:  
?immune?(w)?respons?(w)?modif? or ?immunomodul? or irm, ?skin? or ?mucous?(w)?membran?, ?cervical?(w)?dysplas? or  
?papilloma?(w)?virus?(3a)?cerv? or ?squamous? or ?neoplas? or ?allerg? or ?rhinits? or ?premalig?, ?imidazoquinoline? or  
?tetrahydroimidazoquinoline? or ?imidazopyridine?, ?antitumor?(w)?agent?, ?imidazo?, ?method? or ?techiniq?